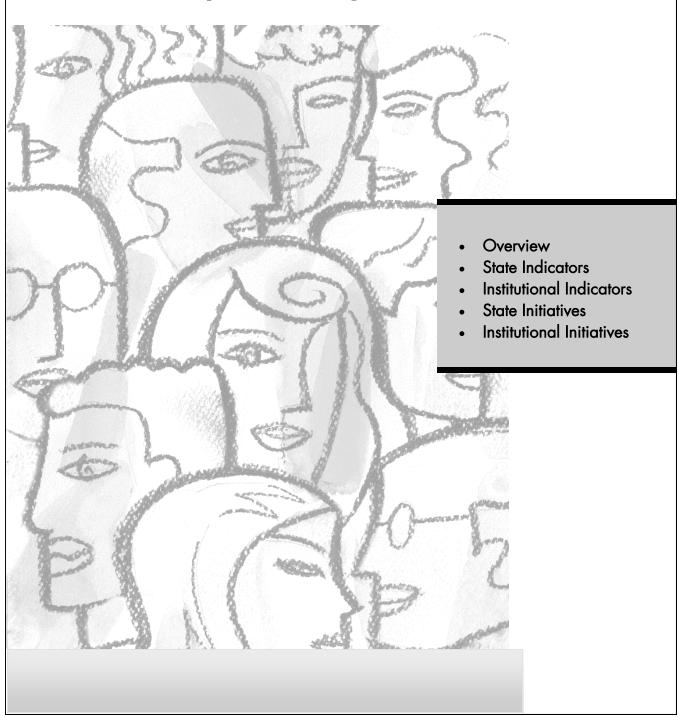
QUESTION 5





Question 5: Are Kentucky's people, communities, and economy benefiting?

Postsecondary education can and must play a central role in transforming Kentucky's economy and quality of life. Through expanded research and development, utilization of faculty member and staff expertise, and the commercialization of research, colleges and universities spur economic growth and development. But just as importantly, postsecondary education produces individuals committed to the social and cultural welfare of their communities. The Commonwealth needs globally competitive companies that invest in individuals and communities in every region of the state. Also needed are citizens and communities that embrace art, literature, music, dance, and theater, because they reflect and enrich the spirit of Kentucky's people. Postsecondary institutions must do their part by being good "stewards of place," working with community leaders to advance economic, social, and environmental progress.

Kentucky needs better jobs and a workforce with the knowledge and skills to fill them. Otherwise, the House Bill 1 goals of higher per capita income and an improved standard of living cannot be met. In addition to measuring the economic impact of Kentucky's postsecondary institutions, the revised questions better incorporate institutions' responsibility to serve as stewards of place.

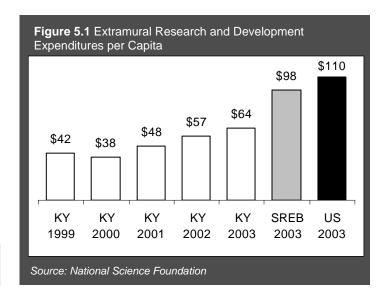
Question 5 - State Key Indicators

Two types of measures will help gauge success – economic development and community service. Economic development includes measures such as research and development expenditures, job training programs, and business start-ups. Community service indicators include staff and faculty community involvement, school community service projects, and programs that bring the expertise of faculty to bear on issues of regional and statewide importance.

This expansion to include measures of stewardship of place puts Kentucky once again on the forefront of institutional accountability. The Carnegie Foundation for the Advancement of Teaching, the non-profit organization that runs the classification system of colleges and universities, is currently in the process of developing a new level of institutional classification based on community engagement. Because of Carnegie's efforts, the indicators that deal with community service will be further developed in conjunction with these national standards and are presented in this year's accountability report as conceptual placeholders.

Research and Development Per Capita

This indicator measures the total research and development activity of the postsecondary system relative to the size of the state as well as the funds that colleges and universities contribute to the state's economy. This federally derived measure provides comparison with other states, especially Kentucky's economic competitors. Extramural research and development includes state, federal, and corporate research investments.



Highlights

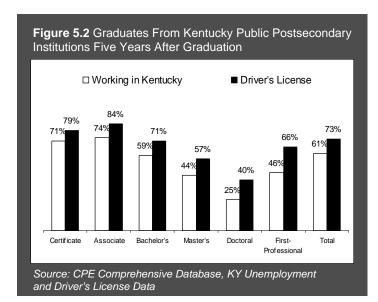
- Statewide extramural research and development expenditures per capita increased by 12 percent to \$64 in 2003 compared to \$57 in 2002 (Figure 5.1).
- Kentucky significantly trails both the SREB average (\$98) and the US average (\$110).
- Kentucky has made some progress on this indicator over the last four years with a four-year percentage change of 54 percent, versus 40 percent and 36 percent for SREB and the US, respectively.

College Graduates Remaining in Kentucky to Live or Work

The Council proposes to regularly measure the extent to which the state benefits from its investment in postsecondary education when its college graduates remain in Kentucky and contribute to the life and economy of the state. The indicator will track the percent of graduates of Kentucky postsecondary institutions living or working in the Commonwealth five years after graduation. It is based upon merged data from the Council, the Kentucky Department of Employment Services, and the Kentucky Division of Driver Licensing.

Highlights

- The data highlighted below are from a study conducted in 2000 and will serve as the baseline for future comparisons (Figure 5.2).
- In 2000, approximately three out of five college graduates were working in Kentucky five years after graduation, while 73 percent had a Kentucky driver's license.
- Certificate and associate level degree holders were most likely to remain in Kentucky, whereas, students who received doctoral degrees and first-professional degrees were least likely to remain.



Degree and Other Credential Production in Focus Fields

Graduates in "new economy" fields are vital to Kentucky's efforts to bring high-value jobs and industries into the state. Focus fields will include degrees and other credentials conferred in sciences, technology, engineering and math—the "STEM" fields, as defined by the federal Department of Energy's Experimental Program to Stimulate Competitive Research (EPSCoR). Please refer to Table 5.1 on page 68.

Highlights

- Kentucky's public four-year and two-year colleges and universities produced 12,442 STEM degrees and credentials in 2004-05, an increase of 14 percent from 2003-04.
- Three out of five of the degrees were in health (54 percent) or psychology (7 percent), 15 percent were in engineering, and 7 percent were in computer and information technology.
- Systemwide, STEM degree and credential production increased 73 percent since 2000-01, exceeding the

overall growth rate of degrees and credentials conferred.

Workforce Training and Assessment

Workforce training is a vital service that institutions provide to employees and employers in their communities, and one that has a direct impact on economic development. This indicator measures participation in workforce training and assessment programs at KCTCS and Kentucky Adult Education, the organizations that have primary responsibility for workforce training. This indicator includes participation in KCTCS credit and noncredit workforce enrollment, fire/rescue training and employment assessments, and KYAE Workforce Projects, Workforce Alliance, and workforce assessments.

Highlights

- KYAE and KCTCS reported a combined 241,004 statewide workforce training and assessments in 2003-04.
- KYAE reported approximately 16,000 Workforce Alliance participants and over 21,000 workforce project participants for a combined 64 percent increase over the previous year.
- KCTCS reported approximately 112,000 workforce training enrollments and attendance in 2003-04 and another 78,000 in assessments, both significant increases from the prior year.

Question 5 - Institutional Key Indicators

Extramural Research and Development Funding

Extramural research and development expenditures from federal and all other outside sources reflects an institution's potential for economic development and measures the positive economic impact this research activity has in its community. Please refer to Table 5.2 on page 69.

Highlights

- Extramural research and development expenditures increased 12 percent systemwide to \$263 million compared with \$234 million in 2003.
- University of Kentucky increased funding by 15 percent to \$187 million in 2003, up from \$162 million in 2002. University of Louisville reported an increase of 8 percent, with \$62 million in total extramural research and development expenditures.
- Over the last three years, the system has increased its extramural research and development expenditures by 59 percent (see Table 5.2).

Table 5.1 STEM Degree/Awards	s in 2004	-05									
STEM Area	EKU	KSU	MoSU	MuSU	NKU	WKU	UK	UofL	KCTCS	Total	4 Yr % Change
Agriculture	35		32	98		86	199		173	623	41%
Natural Resources	18			8	6		38		18	88	0%
Communications Tech	*			9					109	123	
Computer and Info Sci	21	24	10	60	41	105	112		553	926	147%
Engineering	9	*		15		30	420	390		868	11%
Engineering Tech	80	*	75	136	84	50		43	560	1,033	110%
Biological & Biomedical Science	63	15	61	48	32	74	218	182		693	17%
Math and Statistics	10	6	8	11	18	33	79	36		201	23%
Military Technologies											
Physical Sciences	30	*	13	29	27	32	62	58		254	18%
Science Technologies									10	10	150%
Psychology	118	17	34	38	90	135	227	217		876	26%
Health Professions	533	47	118	169	269	399	640	433	4,139	6,747	101%
Academic Year 2004-2005	922	121	351	621	567	944	1,995	1,359	5,562	12,442	73%
Academic Year 2003-2004	820	113	290	621	475	896	1,939	1,241	4,516	10,911	
1 Yr % Change	12%	7%	21%	0%	19%	5%	3%	10%	23%	14%	
4 Yr % Change	12%	16%	33%	2%	28%	35%	1%	9%	435%	73%	
*Less than 6, number not reported											

Business Start-Ups

Source: CPE Comprehensive Database

To encourage and reward Kentucky's research universities in their vital entrepreneurial role, this indicator measures the number of new and continuing companies spun off from university research and commercialization. This indicator tracks the number of new business start-ups dependent on the licensing of an institution's technology with their primary place of business in Kentucky, based upon survey results from the Association of University Technology Managers (AUTM).

Highlights

 According to the most recent AUTM survey results (2003), both the University of Kentucky and the University of Louisville had one new start-up company with its primary place of business in Kentucky. These are businesses that were dependent upon the licensing of the institution's technology for initiation. In 2003, the University of Kentucky reported 21 and the University of Louisville reported three.

Educational and Service Agreements

Faculty and staff members often provide invaluable service to their communities through contracts and formal agreements that are not typically captured by traditional research measures. This indicator is still being developed and will likely incorporate measures into a new, yet to be

released, classification scheme based on community engagement by the Carnegie Foundation for the Advancement of Teaching. Community engagement is defined as the exchange of knowledge and resources between post-secondary education institutions and their larger communities for mutual benefit. This new indicator is intended to reflect the number of formal agreements in support of educational, applied research, or consultative services to businesses, entrepreneurs, P-12 education, government and community groups, or the dollar amount of these agreements.

Community Involvement

The formal participation of faculty and staff members in community organizations is an important way in which institutions contribute to their local communities and regions. This indicator also is being defined in conjunction with the Carnegie's efforts to develop a classification based on community engagement. It is intended to measure the number of faculty and staff members engaged in community projects as extensions of their university roles, such as board members and volunteers, among others.

Northern Kentucky University, due to its leadership in community engagement, has been one of the pilot institutions for Carnegie community engagement initiative. Highlighted below is a sample of the type of data NKU has begun to collect, which will likely serve as an example of

Table 5.2 Extramural Research and Development Expenditures (in \$ thousands)						
Institution	2000	2001	2002	2003	1 Yr % Change	3 Yr % Change
EKU	\$307	\$318	\$376	\$462	23%	50%
KSU	\$2,354	\$3,996	\$6,188	\$6,395	3%	172%
MoSU	\$869	\$976	\$1,084	\$1,094	1%	26%
MuSU	\$1,250	\$1,390	\$1,307	\$1,801	38%	44%
NKU	\$58	\$57	\$48	\$275	473%	374%
WKU	\$3,157	\$3,670	\$4,644	\$3,734	-20%	18%
UK	\$116,444	\$150,713	\$162,441	\$187,028	15%	61%
UofL	\$30,615	\$34,314	\$57,992	\$62,515	8%	104%
Total	\$155,054	\$195,434	\$234,080	\$263,304	12%	59%
Source: National Scienc			·			

the information collected and used to assess performance for future reports. It is based upon survey responses from 442 full-time faculty members and 60 director-level (or higher) staff during the 2004 calendar year. They constitute 78.2 percent of the group that was asked to respond. While this is an extraordinarily high response rate, it does not represent all faculty or all staff. Thus, the figures in Table 5.3 below are underestimates. The faculty and staff reported serving in more than 1,000 ways.

Looking only at the individual faculty/staff projects (those resulting from faculty or staff initiative that are not dependent on any program, department, or university support beyond base salary) and the institutional projects (those for which a department, program, or college has

Table 5.3 NKU Faculty and Staff Communit	y Engagement
<u>Category</u>	<u>Number</u>
Boards, committees, and commissions	330
Individual projects	278
Institutional initiatives	263
Experiential learning	152
Total	1,023
Source: NKU Faculty and Staff Survey. 2004	

assumed ownership and has committed sponsorship or support), NKU found 541 such endeavors. They can be categorized into 11 strategic areas noted in Table 5.4.

Table 5.4 NKU Faculty and Staff Cor	nmunity Projects				
Strategic Area	<u>Number</u>				
P-12 education	208				
Economic development	18				
Government	12				
Health care	21				
Environment	19				
Arts	57				
Public knowledge	74				
Professional development	43				
Social services	26				
Other nonprofits	26				
Other	37				
Total	541				
Source: NKU Faculty and Staff Survey, 2004					

Question 5 - Council or State Initiatives to Be Implemented During 2005-06

The following Council or statewide initiatives are intended to move the Commonwealth forward on Question 5 during 2005-06.

To stimulate economic development, the Council will:

- Continue to work collaboratively with the Kentucky Science and Technology Corporation (KSTC) to manage a series of pre-seed and seed stage capital funds aimed at promoting and developing early stage technology companies in Kentucky. These funds currently distinguish knowledge-based economy initiative programs and activities into four categories: Rural Innovation, Research and Development, Commercialization, and KY EPSCoR.
 - Progress measured by increased number of applications, awards, new companies formed, new jobs created, return on investment, patents, and invention disclosures.
- Continue to develop the Connect Kentucky Research Link. This is a searchable collection of Kentucky's publicly funded research intended to facilitate research-based economic development within the Commonwealth of Kentucky, allow all interested parties to easily access and track existing research projects, and enable the Commonwealth to benchmark its research successes continually and assist in identifying potential future research endeavors. Progress measured by increased number of hits, satisfaction of users, and utilization of proposed enhancements.
- Continue to work on the Statewide Public Health Strategy for Education and Research developed by a Public Health Advisory Committee. The plan includes creation of an accredited program of public health at EKU and a school for public health at UofL. The new program and school are complimented by the existing program at WKU and the newly accredited college for public health at UK.

Progress measured by the development of an online, modularized curriculum that can be accessed by graduate students and by the public health workforce professional development participants presently employed by Kentucky Department of Public Health; completion of UofL and EKU's accreditation processes; increased numbers of students enrolled in the core curricula at each of the institutions and online; and increased research funded through training and

other grants to support the state's strategic plan.

- Continue to implement the statewide engineering strategy, a long-term, comprehensive plan to increase the number of baccalaureate engineers in Kentucky. Joint baccalaureate programs have been successfully established and students and graduates are now being tracked for placement and success in the new programs.
 - Progress measured by placement of graduates in Kentucky engineering positions and increased numbers of engineering graduates produced.
- Continue to administer the Research Support Funding Program, the Regional Stewardship Funding Program, and the Workforce Development/Transfer Program.

Progress measured by increased investments in research at UK and UofL; increased engagement in communities by comprehensive universities; increased scholarships for students enrolling in STEM disciplines; and increased investments in workforce education and transfer programs at KCTCS.

To enhance workforce training and assessment, the Council will:

- Via the Workforce Alliance which represents KYAE, CPE, the Kentucky Community and Technical College System, and the Cabinet for Economic Development provide a responsive, coordinated system to leverage new and existing resources to maximize the number of adults and employers served. Through the Workforce Alliance, KYAE funds basic skills training for incumbent and prospective employees.
 Progress measured by increased number of enrollments in Workforce Alliance projects.
- Via KYAE programs, provide instruction to prepare adults to take the ACT WorkKeys assessment for the Kentucky Employability Certificate (KEC), a standardized credential that validates reading, math, and locating information skills for specific occupations. Progress measured by increased number of KYAE students earning KECs.
- Via KYAE programs, provide targeted instruction for the Kentucky Manufacturing Skills Standards (KMSS) assessment, which is based on the academic, employability and occupational skills identified by industry as necessary for manufacturing employment. Progress measured by increased number of KYAE students earning the KMSS.

- Via KYAE, continue to lead the development of e3.ky.gov, an Internet-based searchable database to connect employers to Kentuckians with GEDs, certificates, licenses, and degrees. This database will also provide aggregate data on the number of individuals with credentials in a variety of geographic and demographic presentations.
 - Measures of progress to be determined.
- Deploy two KYAE SkillMobile training centers featuring a comprehensive selection of curricula, desktop computers, printers, and wireless Internet access to the workplace to deliver training and education. In FY 05, 1,574 employees representing 38 employers were served through SkillMobile training at the workplace.
 - Progress measured by increased number of employees and employers served by the SkillMobiles.
- Via KYVU, continue to provide online professional development training and services to over 2,800 K-12 teachers, 500 early childhood workers and childcare organization directors, state employees, and Kentucky firefighters.
 - Progress measured by increased number of learners served.
- Via KYVU, support the online training component required of Kentucky peace officers and telecommunicators through a customized Web site (LETky.org) and track their professional development approval process via LETrack.org.
 - Progress measured by increased number of LETky.org enrollees requesting and completing Department of Criminal Justice Training offerings.
- Via KYVU, support the online training of highly vulnerable and underserved workers in the K-12 environment, (e.g., substitute teachers, out-of-state educators who are newly hired in Kentucky schools, emergency-certified teachers, teachers in Title I Improvement Schools, teachers seeking rank change through the Continuing Education Option, educators seeking to improve their technology skills in instruction, educators seeking principalship status who cannot attend face-to-face study groups or testing, and regularly certified teachers who handle students with special needs).
 - Progress measured by increased number of enrollees in KyEducators and teachers in KYVU4K12 who meet these target criteria.
- Via the KYVU4K12 and KYVAE initiatives, include processes that require partnerships in the local communities to raise awareness and provide access to needed resources for enrollees.

- Progress measured by increased number of public librarians included in KYVU4K12 orientations; increased number of businesses and non-government organizations included in KYVAE and KYVU4K12 as Internet access points for students; increased number of teachers/parents in KYVU4K12 enrolled in KyEducators offerings; and increased number of KYVAE students who earn gold or silver KY Employability Certificates and then enroll in KYVU higher education degree programs.
- Support, through KYVU, the creation of high quality online degree offerings across state, national, and international providers for credential production in CPE's focus fields. KYVL provides services to all 116 public libraries.
 - Progress measured by increased number of new partnership agreements supported by KYVU services that create academic and professional development opportunities in focus fields; increased amount of grant dollars earned by KYVU/VL participation in research and development partnerships, and increased amount of the KYVU revolving loan fund utilized for high demand programs and courses specific to focus fields.
- Support and expand KYVL services provided to all 116 public libraries in the state.
 Progress measured by increased number of services provided and increased number of users.
- Continue work with the Internet2 project (http://
 internet2.edu). Council staff, with help from the University of Kentucky, has implemented the Sponsored
 Education Group Participants program to extend Internet2 connectivity to the comprehensive universities, schools, and the Education Cabinet. At least four pilot sites will be implemented this next year in Frankfort, Louisville, Letcher County, and northern Kentucky.

Progress measured by successful implementation of the pilots, increased number of applications used, and increased number of connections between school districts with broadband access and neighboring postsecondary institutions to access Internet2.

Question 5 - Institution Initiatives to Be Implemented During 2005-06

The following initiatives are planned in 2005-06 to move institutions forward and support Question 5 of the Public Agenda.

Eastern Kentucky University will:

 Increase external funding that supports regional stewardship and applied research, including collaborative efforts with educational institutions, businesses, communities, and government entities that contribute to economic and technology growth.

Progress measured by increased level of external funding.

- Increase the number of clients served through outreach activities that benefit community and/or economic development provided by the Center for Economic Development, Entrepreneurship and Technology, the Small Business Development Center, Continuing Education and Outreach and extended campuses, Justice and Safety Center, Training Resource Center, Center for Criminal Justice Education and Research, and other EKU centers and programs. Progress measured by increased number of clients served.
- Expand the number of Regional Innovation Centers operated by EKU in partnership with the Department of Commercialization and Innovation in the Cabinet for Economic Development, subject to available funding.

Progress measured by increased number of RI Centers.

- Open a Richmond campus-based business development incubator in 2006 to support and grow new businesses, subject to available funding.
 Progress measured by the opening of the incubator.
- Develop a new degree program in homeland security in the College of Justice and Safety.
 Progress measured by the development of the program and enrollment in and quality of the program.

Kentucky State University will:

- Expand extension services to more counties in the Commonwealth. An example of this expansion is taking the "Third Thursday" program to the farmers in the state, along with maintaining the existing program at the KSU farm. The "Third Thursday" program is designed to provide farmers training and informational briefings for enhancement and implementation of farm-related opportunities for this industry. Progress measured by the extent to which expansion occurs.
- Make KSU facilities available for recreational, cultural, and other activities undertaken by the Frankfort/ Franklin County area, as well as the surrounding counties, and encourage KSU employees to contribute to the various activities of the community.

Progress measured by increased use of KSU facilities by the community and increased number of KSU employees involved in community activities.

 Offer expertise and assistance to county and state government officials in their efforts to lure new industries to the region and state.

Progress measured by increased assistance provided and development of relevant training for the particular industry.

Morehead State University will:

 Optimize economic development by developing a business incubator program to support entrepreneurial activity, including high-tech businesses linked to the university's Space Science Center, and enhancing accessibility and utilization of the Small Business Development Center.

Progress measured by the development of the incubator program.

- Partner with local government agencies and the Center for Rural Development to establish a CenterNet facility for the community.
 - Progress measured by the creation of the facility.
- Organize an internal support infrastructure for regional stewardship activities and services available through the university.

Progress measured by increased coordination, promotion, and access to university stewardship activities and services.

Support tourism efforts.

Progress measured by the implementation of cultural heritage programs and the exploration of a potential academic program in tourism development.

Murray State University will:

Increase awareness and participation in civic engagement among students.

Progress measured by increased grant applications to enhance the institution's existing service learning initiatives; the creation of a Center for Service Learning and Civic Engagement; increased level of engagement across campus; the expansion of the model of the Service Learning Scholars program beyond campus through presentations, workshops, and articles; and advancement of the American Democracy Program and other initiatives focused on social responsibility and volunteerism.

 Place more emphasis on the role of the institution to stimulate and enhance economic opportunities in west Kentucky.

Progress measured by increased number of activities aimed at stimulating economic development.

Northern Kentucky University will:

- Support regional economic development through the work of the associate provost for economic initiatives who will work with the business community. Progress measured by the deployment of four projects with regional businesses and NKU faculty and students with the overall purpose of business development and growth for the Northern Kentucky region; the submission of six state and federal grant proposals (totaling at least \$4 million) targeted to support both projects, and increased sustainable technological resources needed to positively affect regional economic development.
- Model good regional stewardship through active participation in Vision 2015, the northern Kentucky regional visioning process.
 Progress measured by increased technical expertise provided to each of the five action teams associated with the process, increased participation on the steering committee and the leadership committee, and the completion of the Vision 2015 project with the community.
- Assist and support community decision makers (P-12, local government, and nonprofit) by providing academic expertise and services that contribute to capacity building.
 Progress measured by a three percent increase in the number of projects and services provided, from 871 in 2004-05 to 900 in 2005-06.
- Extend "Making Place Matter," a regional stewardship initiative, by aligning the university to support this work.
 Progress measured by the identification of a process for increasing the university's alignment for public engagement, the completion of an alignment plan, and the execution of at least one event to promote the alignment initiative.
- Stage visual and performing arts performances and demonstrations for P-12 students and adults, particularly in communities with limited access to the arts. Progress measured by an increase in the number of students served in ArtReach performances (from 2,538 students in 2004-05 to 3,000 students in 2005-06); an increase in the number of elementary stu-

dents attending Sprit Day(from 615 students in 2004-05 to 1,115 in 2005-06); and the sponsorship of a community concert involving NKU and a regional high schools.

Western Kentucky University will:

- Support economic development, community advancement, and workforce needs through increased partnerships with other educational institutions (including P-12 schools), community agencies, government, business, and industry. This includes initiatives such as the regional Innovation and Commercialization Center that support entrepreneurship, assist in the development of successful new economy businesses, and attract highly educated adults to the state. Progress measured by increased number of partnerships with P-12 schools or institutions, increased number of companies recruited into the WKU Small Business Accelerator, and increased number of jobs generated by the Center for Research and Development.
- Increase contract and grant activity that engages
 WKU faculty and students in research and service
 activities that contribute to economic development,
 advancement of learning, and the quality of life of the
 community and its citizens.
 Progress measured by increased number of grants
 and contracts generated through the Applied Research and Technology Program.
- Expand community outreach opportunities in creative and accessible ways that address the needs of diverse constituencies served by the university.
 Progress measured by gains in student achievement in the following learning outcomes: (1) students will demonstrate greater capacity to apply knowledge and training to address relevant concerns in community or society; (2) students will demonstrate greater respect for diversity of peoples, ideas, and cultures; and (3) students will demonstrate greater awareness of their opportunities as responsible citizens living and working in a global society.

University of Kentucky will:

 Recruit and retain faculty with nationally prominent and externally funded research programs. Such faculty enhance research funding and productivity, improve undergraduate and graduate education, attract more qualified students, and promote community and economic development. Distinguished professors are the cornerstone of a successful university research program. Through the Research Challenge Trust Fund (RCTF) program, UK has been able to recruit a quality faculty that can compete successfully for additional research dollars.

Progress measured by increased number of chairs and professorships established and filled; and increase in the research productivity attributed to the RCTF faculty.

- Expand the outreach component of research, increasing the efficiency and impact of faculty work through programs like the Commonwealth Collaboratives. Partnership Institute for Math and Science Education, the statewide Kentucky Cooperative Extension Service, the Collaborative Center for Literacy Development, the Kentucky Consortium for Applied Research and Treatment, and similar programs. Progress measured by highlighting recent activity for a selected outreach program. For example, in 2005-06 UK formalized a new engagement initiative—the Commonwealth Collaboratives—to emphasize the importance of faculty and staff involvement in finding solutions to the persistent problems that threaten the health and well-being of Kentuckians. An initiative designated as a Commonwealth Collaborative receives a funding enhancement from the university to support its work. In 2005-06, there are 24 Commonwealth Collaboratives addressing Kentucky's priority needs in health care, economic development, education, the environment, and quality of life. Markers of progress will be determined for each one during the current year.
- Respond to changes in national research priorities and opportunities, including homeland security, the National Institutes of Health Roadmap, the National Nanotechnology Initiative, and others. As an example of its efforts to implement this priority, UK recently announced \$4.9 million in awards from the Institute for Hometown Security, including projects from areas of materials science to agriculture.

 Progress measured by increased extramural funding awards in areas that have emerged as national research priorities.
- Develop and maintain critical clinical programs in specialized areas of need in central, southern, or eastern Kentucky, while working with local providers to advance the availability of appropriate levels of care in the community in order to keep patients in their own communities whenever possible and move them to Lexington only for advanced subspecialty care. UK HealthCare is pursuing the development of clinical outreach initiatives with community providers across a number of disciplines, including cardiology, oncology, digestive health, neurosurgery, and general surgery. Progress measured by increased strength of the community health care providers, clinically and financially,

- and increased appropriateness of referrals to UK's academic medical center.
- Implement a facilities master plan for UK HealthCare, including construction of a new patient care facility, enhanced ambulatory facility, combined medical and dental education building, and new research facility with an extensive vivarium. UK HealthCare has initiated planning for revitalization of its facilities within a broad context, not just planning for a new hospital facility but also for the health care delivery systems of the future.

Progress measured by actual completion of the phases established in the master facilities plan.

University of Louisville will:

- Build on the achievements of faculty research by developing patents that will yield license and royalty income, as well as provide the basis for commercialization through start-up businesses in the Commonwealth.
 - Progress measured by the awarding of up to four "proof of concept grants" under a new program that provides pre-seed funding for university projects with commercial promise: the adjustment of start-up company license agreement deal points to retain more value for the university: the achievement more value from UofL technologies by engaging outside experts to provide front-end business analysis on commercial potential, corporate partners, and new research directions to pursue; increased immediate license income by focusing on finding and licensing both software and research materials; and the division of the Office of Technology Transfer into two core functional units, "business" and "service," to allow for professional expertise and specialization that will enhance service levels.
- Increase continuing education programs to provide for the "just in time" needs of people, businesses, and communities. The Delphi Center for Teaching and Learning, Continuing and Professional Development will continue to offer public professional development seminars and in-house programs.

 Progress measured by increased number of Delphi's programs and participants by offering two new programs based on previous assessment and feedback, nine new courses, and two new certificate programs by spring 2006.
- Implement a signature partnership initiative that will engage faculty and students in multi-disciplinary academic, research, and service activities designed to reduce social and human disparities in the areas of education, health, economic development, and hu-

man and social services. The university will work with and engage community partners to enhance existing programs and/or create new programs designed to address specific disparities in the targeted community.

Progress measured by recruiting 200 volunteers to participate in Every 1 Reads program at three elementary schools in the target (West Louisville) area and establishing five major interdisciplinary collaborations as pilots for the signature partnership strategy.

Kentucky Community and Technical College System will:

- Expand use of employability certificates and occupation-specific certifications and credentials by students and workers.
 - Progress measured by increased number of certificates awarded.
- Create additional state, regional, national, and international partnerships to provide linkages between KCTCS and employers, public and private training providers, and skilled workers.
 - Progress measured by increased train-the-trainer mechatronics instruction for KCTCS faculty at the Siemens Academy (Berlin) and increased number of partnerships to provide training for the North American Racing Academy.
- Expand and enhance the Workforce Investment Network System (KY WINS) through new and innovative linkages among business and industry partners and state and local economic development agencies and organizations. KCTCS will partner with the Eastern Kentucky Concentrated Employment Program to use WIA and WINS funding to provide training for business and industry.

Progress measured by successful benchmarking trips by KCTCS staff to state workforce training programs in North Carolina and South Carolina.

 Expand lifelong learning opportunities through continuing education and professional development programs such as the enhanced New Horizons Conference

Progress measured by piloting "Scenarios," a new faculty orientation online program; delivering "best practices" presentations for a systemwide audience of college faculty, staff, and administrators; reinstating a formal "mini-grant" application process for individual faculty support; and piloting a Teaching and Learning Support Services Fellow position.

Progress measured by successful negotiation of an MOA with the Office of Employment and Training and analysis of the matched data set.

Kentucky's nonprofit, independent colleges and universities will:

- Build program capacity and graduate students in high demand areas, like nursing and the health sciences, where there are significant social needs. Many of Kentucky's independent colleges and universities are located in high-unemployment, low-income areas where their employees add valuable community citizen leadership.
 - Progress measured by increased number of graduate students in high-demand fields and increased number of students from high-need areas.
- Offer the public free or low-cost use of a number of facilities, including libraries, theaters, athletic facilities, museums and galleries, healthcare clinics, conference centers, technology labs, and television and radio stations.
 - Progress measured by increased public use of independent postsecondary facilities.